

**SYSTEM AND METHOD FOR CONTROLLING AN ULTRAVIOLET
AIR TREATMENT DEVICE AND DUCT WORK APPLICATIONS**

Abstract

5 A system and method for controlling operation of an ultraviolet air
treatment device including an ultraviolet lamp positioned to treat air within an
air handling system that operates in either an on state or an off state. The
method includes activating the ultraviolet lamp, and determining the operational
state of the air handling system. The ultraviolet lamp is deactivated upon
10 expiration of a predetermined time period during which the air handling system
remains in the off state. The predetermined time period is preferably 30-60
minutes, preferably 40 minutes for residential applications.